

SWP Water Quality Summary

June 10 to July 8, 2009

Electrical Conductivity: EC decreased at Banks Pumping Plant (BPP) and Vallecitos, but increased at Check 29, Check 41, Devil Canyon and Barker Slough from June 10 to July 8, 2009. Concentrations ranged from 228 uS/cm to 603 uS/cm (137ppm to 362ppm), below the Article 19 Monthly Average Objective of 440 mg/L (733 uS/cm). Daily average concentrations varied at all the locations. As of July 8, 2009, the lowest and highest concentrations of 228 uS/cm and 603 uS/cm occurred at Vallecitos and Check 29, respectively. Concentrations decreased this month at BPP from 390 uS/cm to 229 uS/cm.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations and ranged from 0.06 mg/L to 0.32 mg/L. As of July 8, BPP and Vallecitos had the lowest concentration of 0.06 mg/L, followed by Barker Slough with 0.09 mg/L, while the highest concentration of 0.32 mg/L occurred at Check 29. Concentrations at BPP have been relatively steady, but decreased substantially this month, from 0.16 mg/L to 0.06 mg/L as of July 8, 2009.

Turbidity: Turbidity levels decreased at all locations except at Check 41 and Vallecitos this month. Turbidity levels ranged from 1.0 NTU to 66.0 NTU. On July 8, 2009, the lowest level of 1.0 NTU occurred at Check 29 while the highest level of 66.0 NTU occurred at Barker Slough. BPP mean daily turbidity levels decreased slightly from 14.9 NTU on June 10 to 13.1 NTU as of July 8, 2009.

Dissolved Organic Carbon (DOC): Concentrations decreased at BPP, Check 13 and Edmonston, from June 10 to July 8, 2009. DOC daily average concentrations at BPP, Check 13 and Edmonston ranged from 3.7 mg/L to 3.0 mg/L, from 3.7 mg/L to 3.0 mg/L and from 3.3 mg/L to 2.4 mg/L, respectively, as of July 8, 2009.

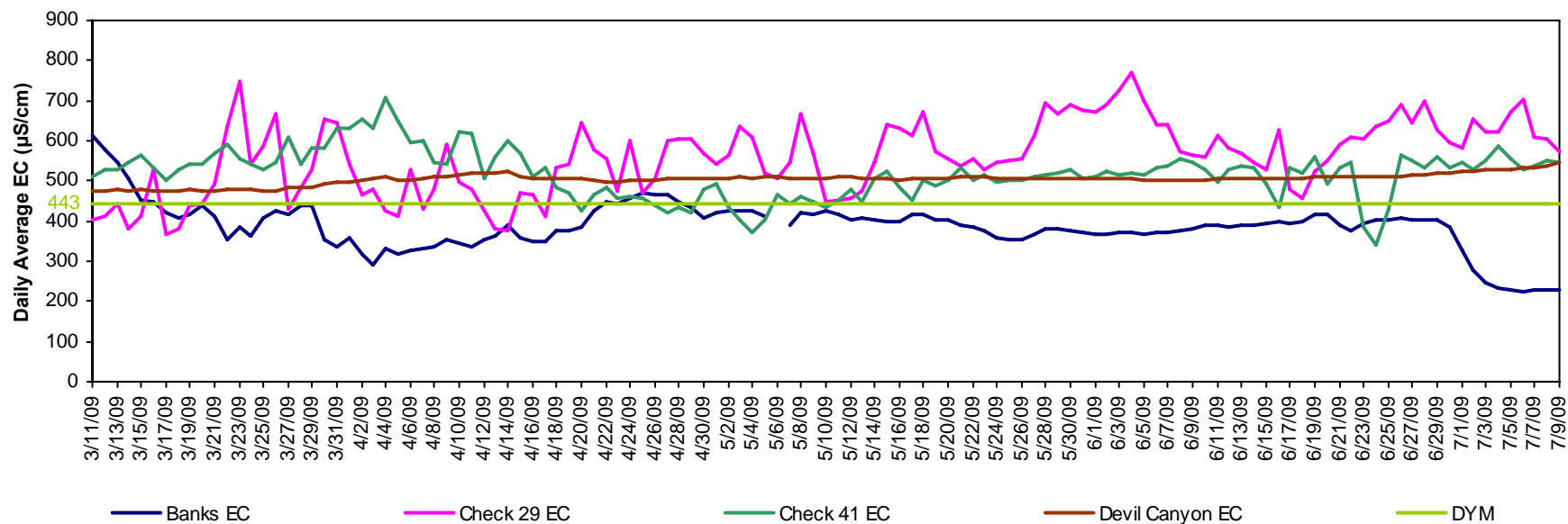
Taste and Odor Compounds: MIB and geosmin concentrations in the SWP were low project-wide, ranging from non-detect to 8 ng/L. Several readings were taken this month at Clifton Court inlet and outlet, BPP, Lake Del Valle Check 7, San Luis Reservoir, Pacheco PP, Check 13, Check 41, Check 66, Castaic Lake, Silverwood Lake, Lake Perris and Lake Mathew from June 3 to July 8, 2009.

Pump-ins: Pump-ins to the State Water Project (SWP) from the banking programs (Arvin Edison, Kern Water Bank, Cross Valley Canal, Semi-tropic and Wheeler Ridge Storage Water District) totaled 27,252-acre feet (AF).

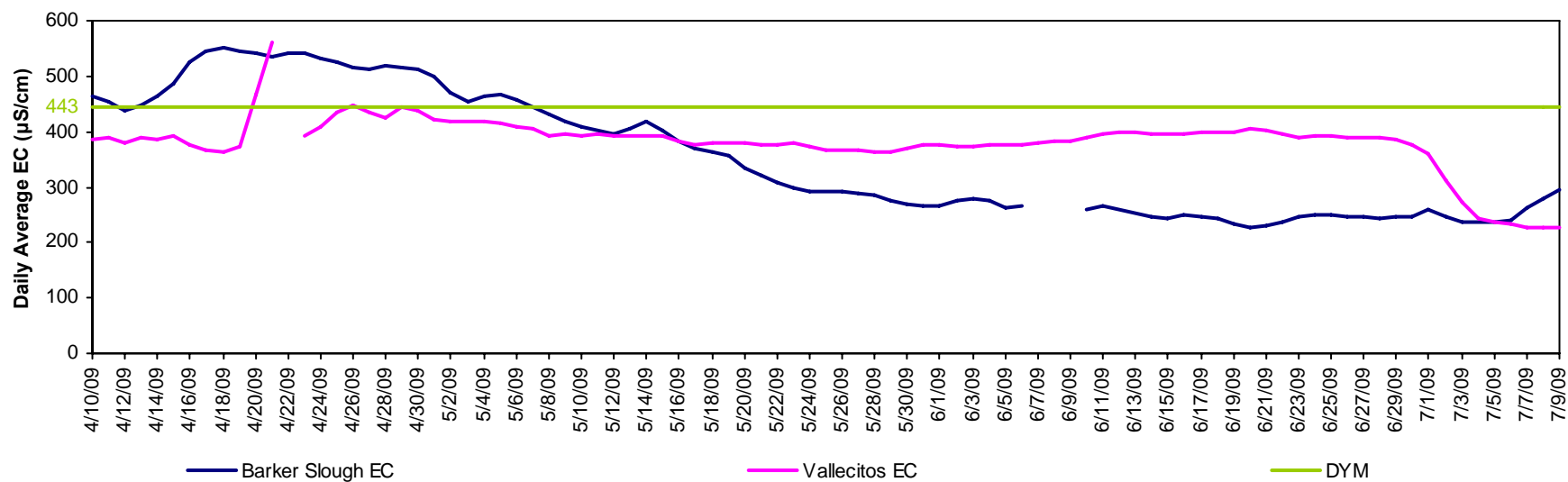
Note: The intent of the monthly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia at 916-653-7213, or Austine Eke at 916-653-7227. To view water quality data from the automated stations along the SWP, visit:

http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

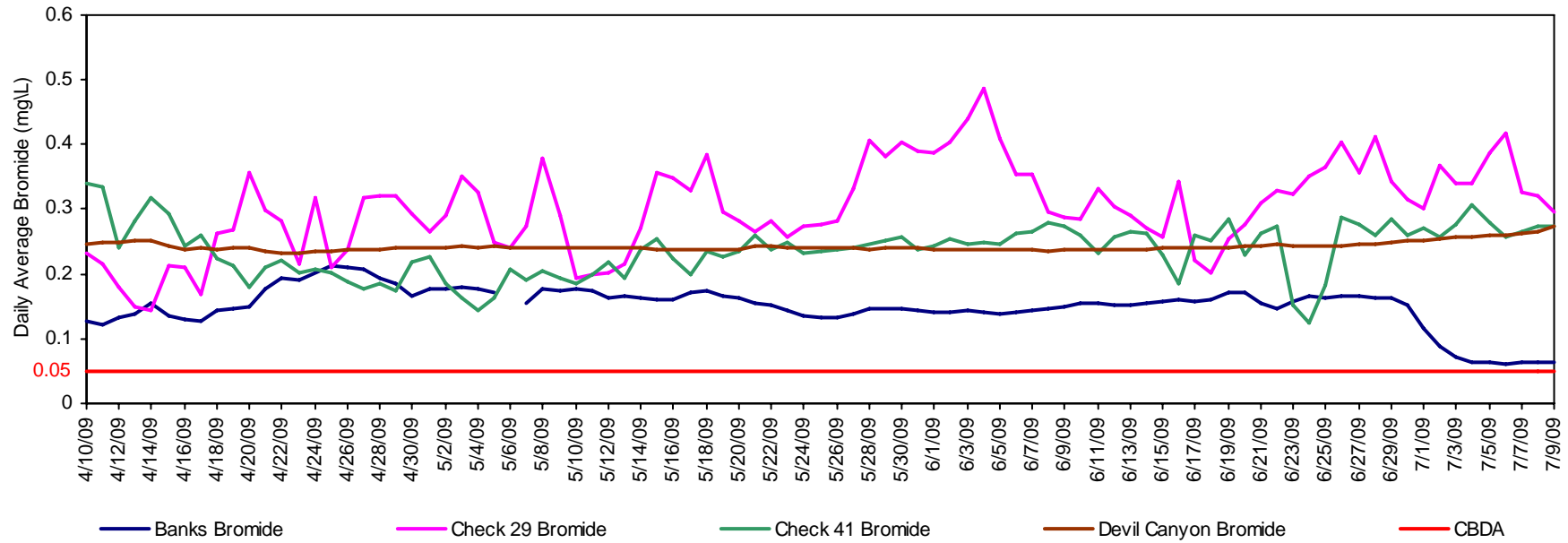
California Aqueduct - Electrical Conductivity



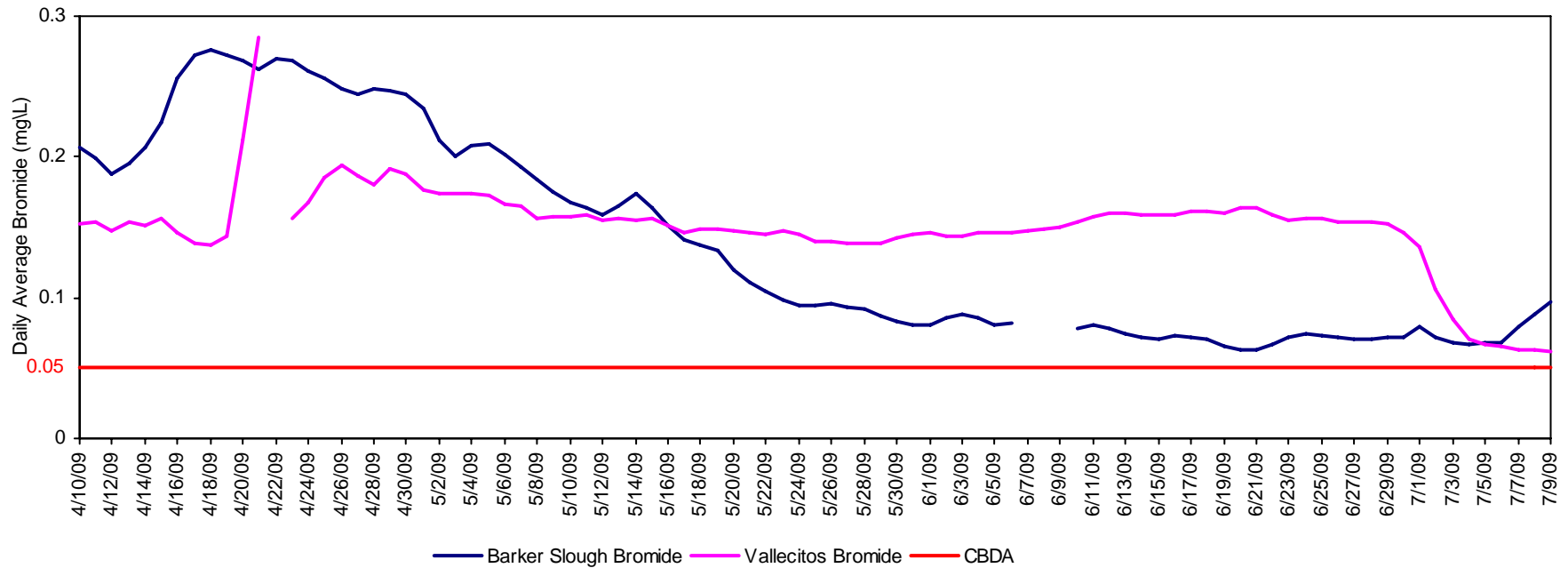
North and South Bay Aqueduct - Electrical Conductivity



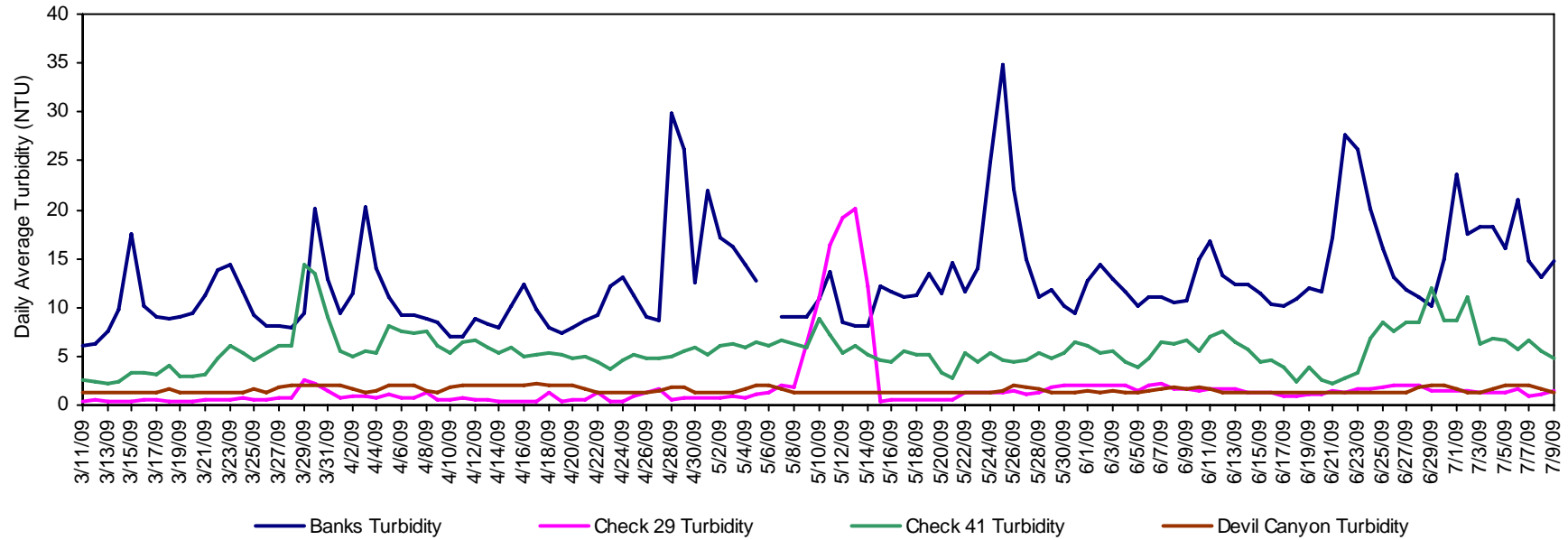
California Aqueduct - Calculated Bromide



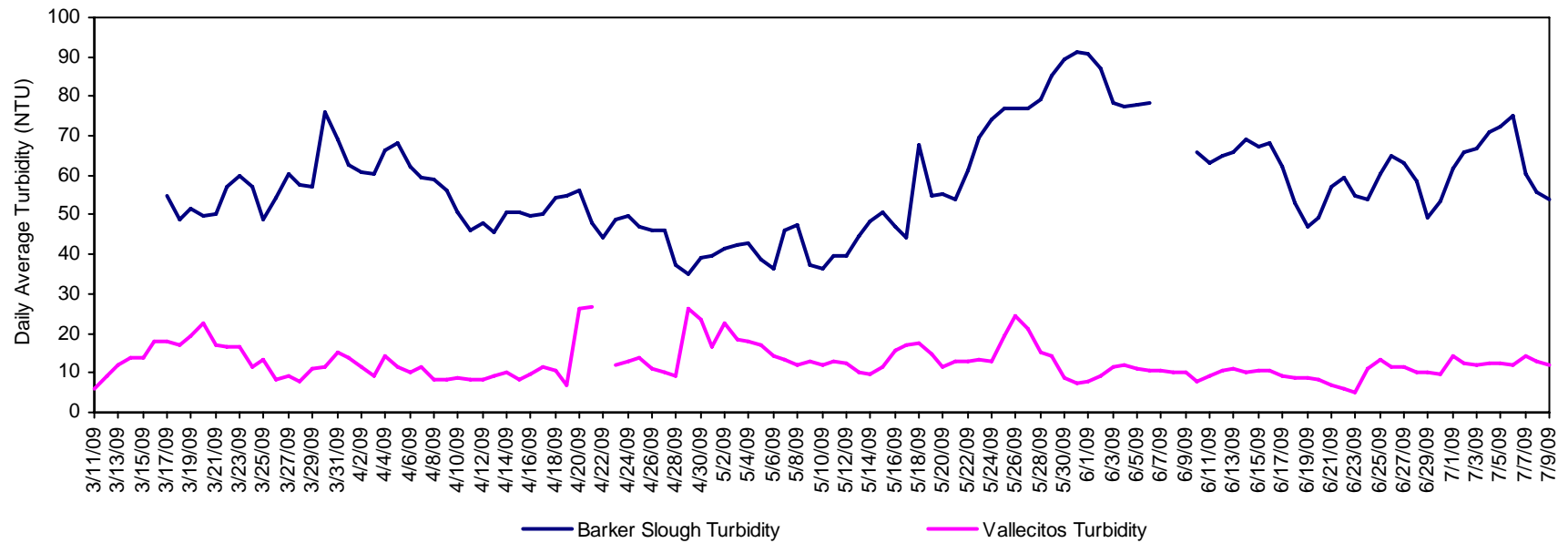
North and South Bay Aqueduct - Calculated Bromide



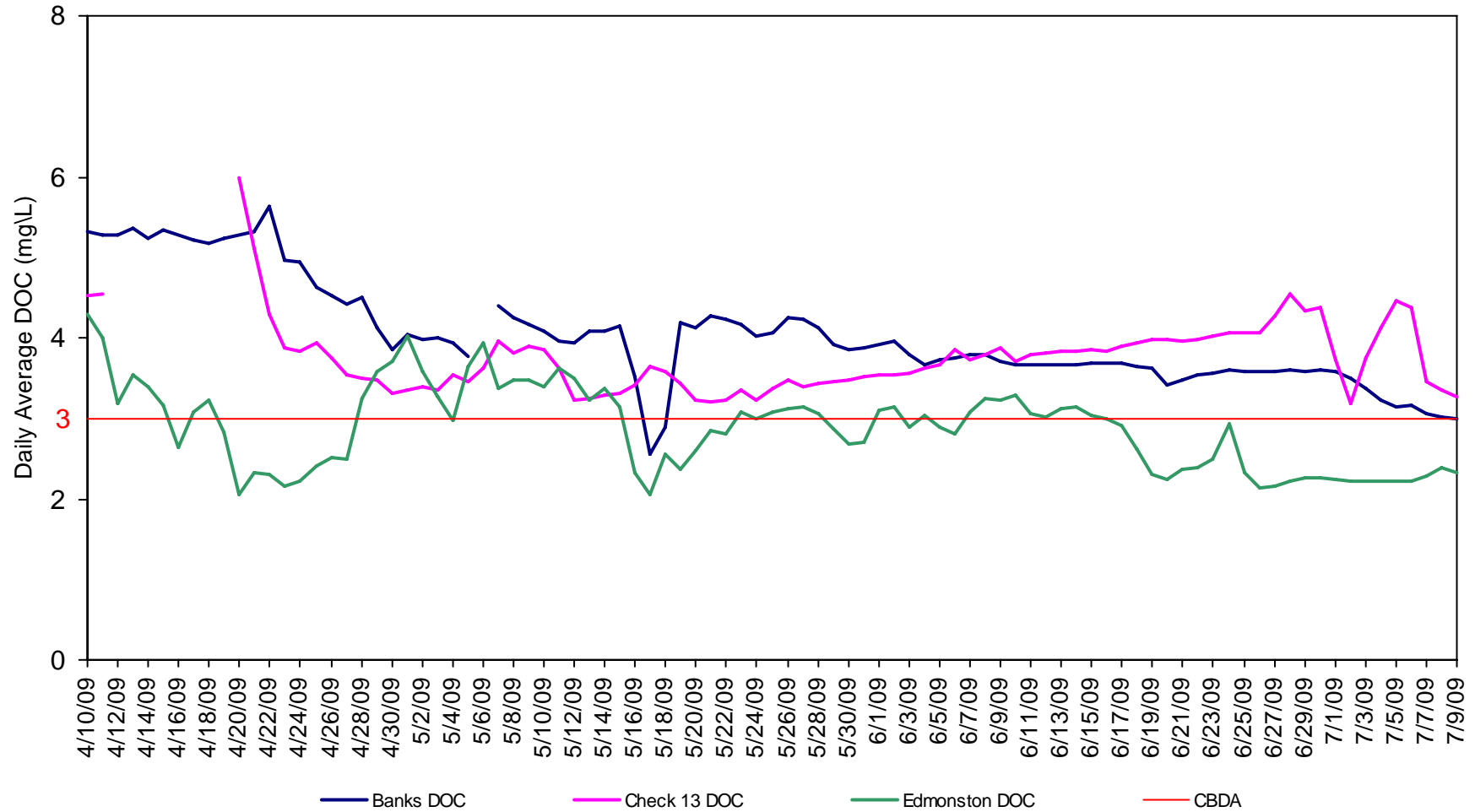
California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon



SWP Water Quality Report

DWR Operations & Maintenance Water Quality Automated Station Data from June 10 to July 8, 2009

Automated sampling stations provide real time data by continuously measuring water quality conditions in the California Aqueduct.

Water Quality Parameters	Objective	Range	Harvey O. Banks PP KA000331	Check 29 KA024454	Check 41 KA030341	Devil Canyon KA041288	NBA at Barker Slough KG000000	Vallecitos KB002250	Check 13 O'Neill Forebay Outlet KA007089	Edmonston PP Milepost 293.45
EC (µS/cm)	733**	average	356	602	518	515	247	358		
		6/10/09	390	561	531	503	259	388		
		7/8/09	229	603	549	539	279	228		
Bromide (mg/L)	0.05*	average	0.14	0.32	0.25	0.25	0.07	0.14		
		6/10/09	0.15	0.29	0.26	0.24	0.07	0.15		
		7/8/09	0.06	0.32	0.27	0.27	0.09	0.06		
Turbidity (NTU)		average	15.4	1.4	6.2	1.5	61.4	10.5		
		6/10/09	14.9	1.5	5.4	1.9	66	8		
		7/8/09	13.1	1.0	5.5	1.6	56	13		
DOC (mg/L)	3.0*	average	3.5						4.0	3.5
		6/10/09	3.7						3.7	3.3
		7/8/09	3.0						3.4	2.4
Taste & Odor Parameters	Range	Clifton Court KA000000	Harvey O. Banks PP KA000331	Lake Del Valle, Check 7 KB001632	Check 13 O'Neill Forebay Outlet KA007089	Check 41 KA030341	Check 66 KA040341	Castaic Lake	Lake Perris	Silverwood Lake
MIB (ng/L)	6/10/09 to	ND	ND	ND	ND	1	ND	ND	ND	ND
Geosmin (ng/L)	7/1/09	6	4	3	1	1	2	8	5	3

*CBDA Objective

**Article 19 Monthly Average (converted from 440 mg/L to 733µS/cm)

ND = Non-detect